App. No. 10/750,520

Reply to Office action of December 1, 2004

Amendments to the Claims:

1 to 12. (canceled).

13. (currently amended) A method for consolidating a shaped nanophase metal powder, comprising the steps of:

encompassing said <u>shaped</u> nanophase metal powder with a flowable pressure transmitting medium that is heated to a first temperature;

compressing said heated medium at said first temperature and thereby consolidating said shaped nanophase metal powder;

heating said medium to a second temperature that is higher than said first temperature; and

compressing said heated medium at said second temperature and thereby further consolidating said shaped nanophase metal powder.

- 14. (original) The method according to claim 13, wherein said second temperature ranges between about 700 °F and about 1000 °F.
- 15. (original) The method according to claim 14, wherein said second temperature ranges between about 775 °F and about 875 °F.
- 16. (original) The method according to claim 13, wherein said first temperature ranges between about 700 °F and about 1000 °F.

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- 17. (original) The method according to claim 16, wherein said first temperature is about 700 °F.
- 18. (original) The method according to claim 13, wherein said each compressing step comprises mechanically compacting said heated medium to consolidate said powder.
- 19. (original) The method according to claim 18, wherein said mechanically compacting is performed using a hydraulic press.
- 20. (currently amended) The method according to claim 13, wherein <u>said shaped</u> powder is shaped by enclosing said powder in a container, said powder is <u>remaining</u> enclosed in a <u>said</u> container during said encompassing step[[,]] <u>during which</u> said container <u>is</u> also being encompassed with said medium.
- 21. (original) The method according to claim 20, wherein said container is formed of a material that is sufficiently thin to have a negligible effect on consolidating said powder when said medium is compressed.
 - 22. (original) The method according to claim 13, further comprising: prior to said consolidating step, cryomilling and degassing said powder.
- 23. (original) The method according to claim 13, wherein said powder is a nanophase metal selected from the group consisting of aluminum, iron, aluminum alloys, and iron alloys.

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- 24. (original) The method according to claim 23, wherein said powder is nanophase aluminum.
- 25. (new) The method according to claim 13, wherein said shaped powder is a preform mass.